

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,229,680 B1
APPLICATION NO. : 09/666813
DATED : June 12, 2007
INVENTOR(S) : Cromton

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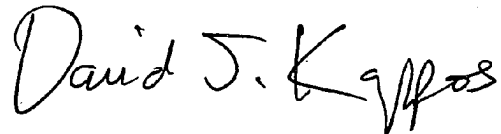
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page, showing an illustrative figure, should be deleted and substitute therefor the attached title page.

Delete drawing sheets 1-10, and substitute therefor the drawing sheets, consisting of FIGS. 1A - FIG 4, As shown on the attached pages.

Signed and Sealed this

Third Day of November, 2009

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial "D" and a stylized "K".

David J. Kappos
Director of the United States Patent and Trademark Office

(12) **United States Patent**
Crompton

(10) **Patent No.:** **US 7,229,680 B1**
(45) **Date of Patent:** **Jun. 12, 2007**

(54) **REALISTICALLY TEXTURED PRINTED
FLOCKED FABRICS AND METHODS FOR
MAKING THE FABRICS**

(75) **Inventor:** **Kevin R. Crompton, Westport, MA
(US)**

(73) **Assignee:** **Microfibres, Inc., Pawtucket, RI (US)**

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 395 days.

(21) **Appl. No.:** **09/666,813**

(22) **Filed:** **Sep. 21, 2000**

Related U.S. Application Data

(60) **Provisional application No. 60/155,077, filed on Sep. 21, 1999.**

(51) **Int. Cl.**
B32B 33/00 (2006.01)
B32B 3/02 (2006.01)
B32B 3/26 (2006.01)

(52) **U.S. Cl.** **428/89; 428/88; 428/90;
428/919**

(58) **Field of Classification Search** **428/90,
428/88, 89, 96, 919**

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

774,890 A 11/1904 Mutterer

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2024768 3/1991

OTHER PUBLICATIONS

Examination Report for a corresponding Turkish patent application, serial No. 2002/00721, issued Apr. 2, 2004 by the Preliminary Examining Authority, Federal Institute of Intellectual Property, Russia.

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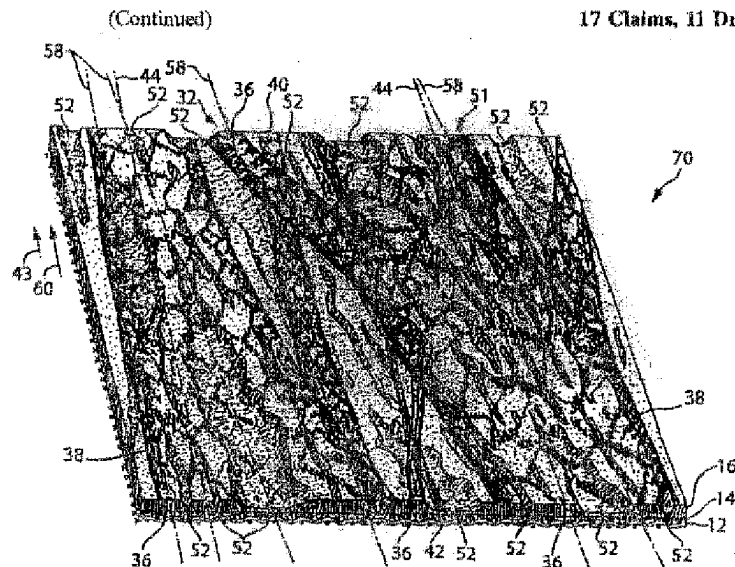
Primary Examiner—Cheryl A. Juska

(74) *Attorney, Agent, or Firm*—Wolf, Greenfield & Sacks, P.C.

(57) **ABSTRACT**

The present invention is directed to unique flocked pile fabrics and methods for producing such fabrics. The fabrics provided according to one embodiment of the invention include an embossed pattern, characterized by a plurality of elongated depressions in the surface of the pile fabric, and a superimposed printed pattern, characterized by a scene or illustration including a plurality of visual features having elongated shapes. The inventive embossed, printed pile fabrics, having a superimposed embossed and printed pattern, advantageously superimpose the embossed pattern and the printed pattern upon the pile fabric so that the embossed pattern imparts a three-dimensional texture to the scene or illustration or pattern comprising the printed pattern. The texture provided by the embossed pattern can impart a visual effect to the scene or illustration which can render it more realistic than a similar scene or illustration printed upon a conventional unembossed pile fabric. In one embodiment, this unique texturing effect is accomplished by substantially aligning the longitudinal axes of the elongate features of the printed pattern and the elongate features of the embossed pattern. The pile fabric provided by the invention can be produced by utilizing a plurality of embossing and printing techniques. In one embodiment, the embossing technique comprises air embossing, and the printing technique comprises paper transfer printing utilizing a paper transfer sheet. The fabrics provided by the invention are especially useful as camouflage fabrics. Such fabrics typically include a printed scene or illustration representing a sylvan setting dominated by visual features such as trees, branches, bushes, leaves, flowers, berries, grass, rocks, moss, etc.

17 Claims, 11 Drawing Sheets



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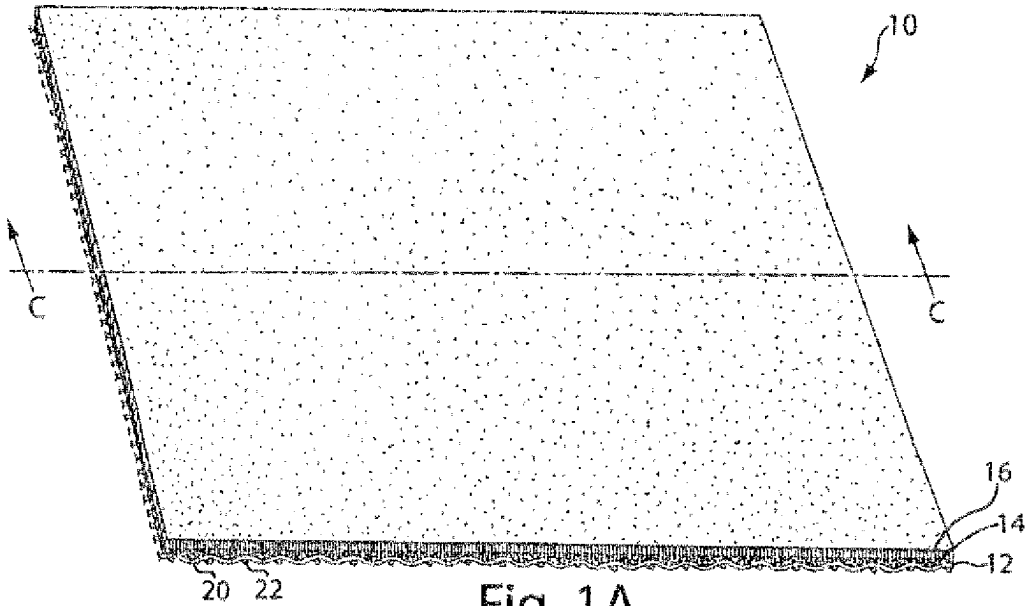


Fig. 1A
(PRIOR ART)

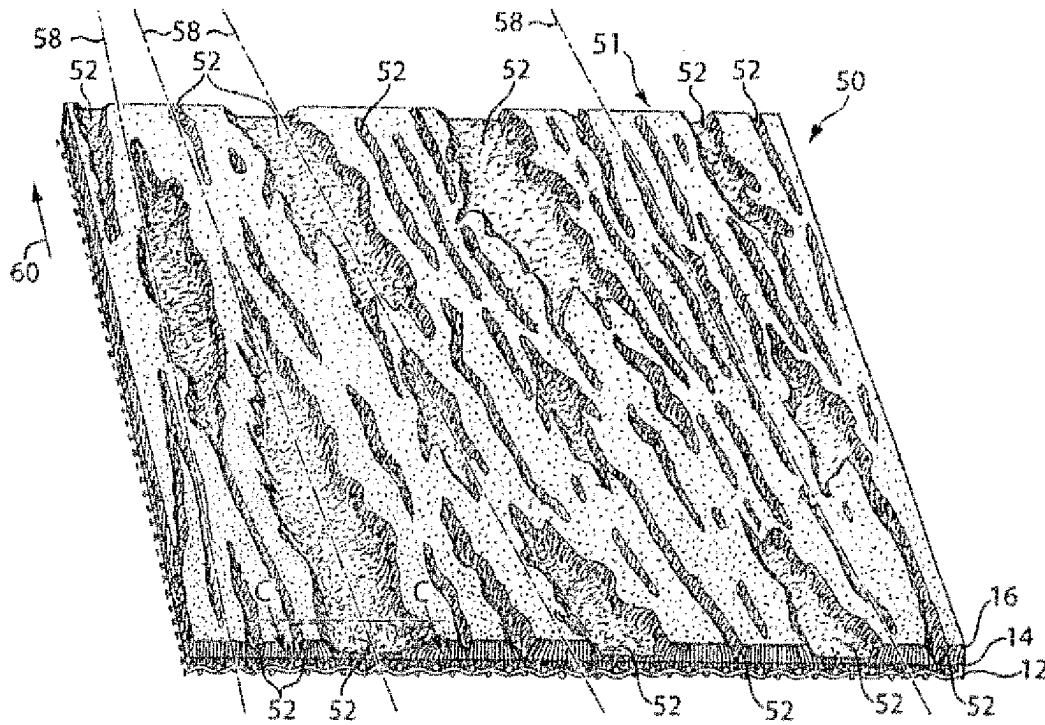


Fig. 2A

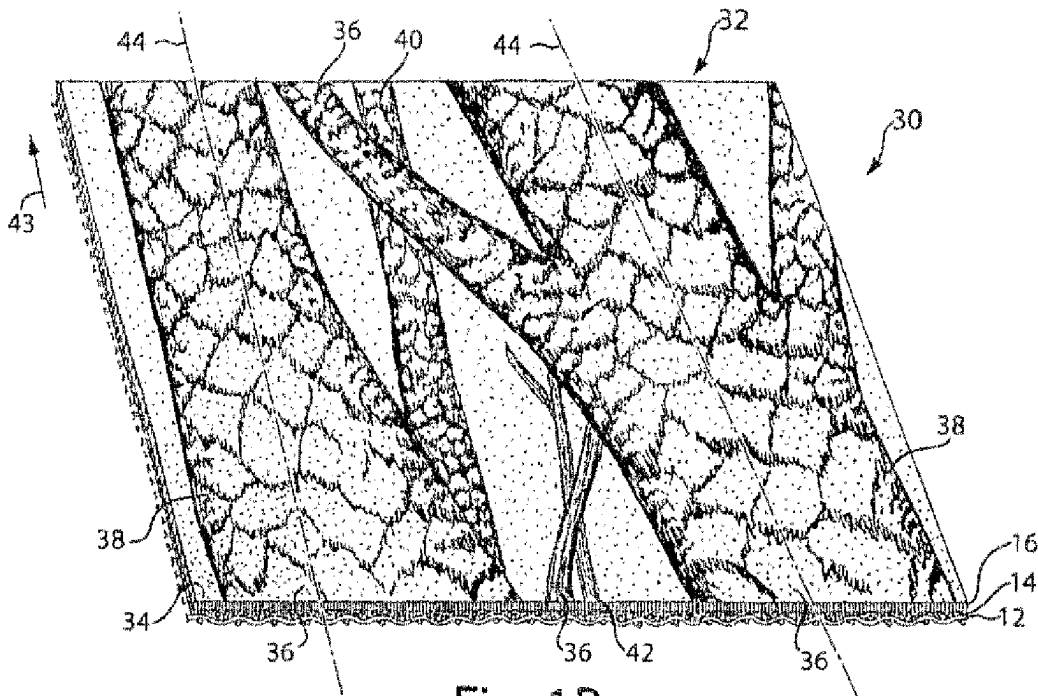


Fig. 1B
(PRIOR ART)

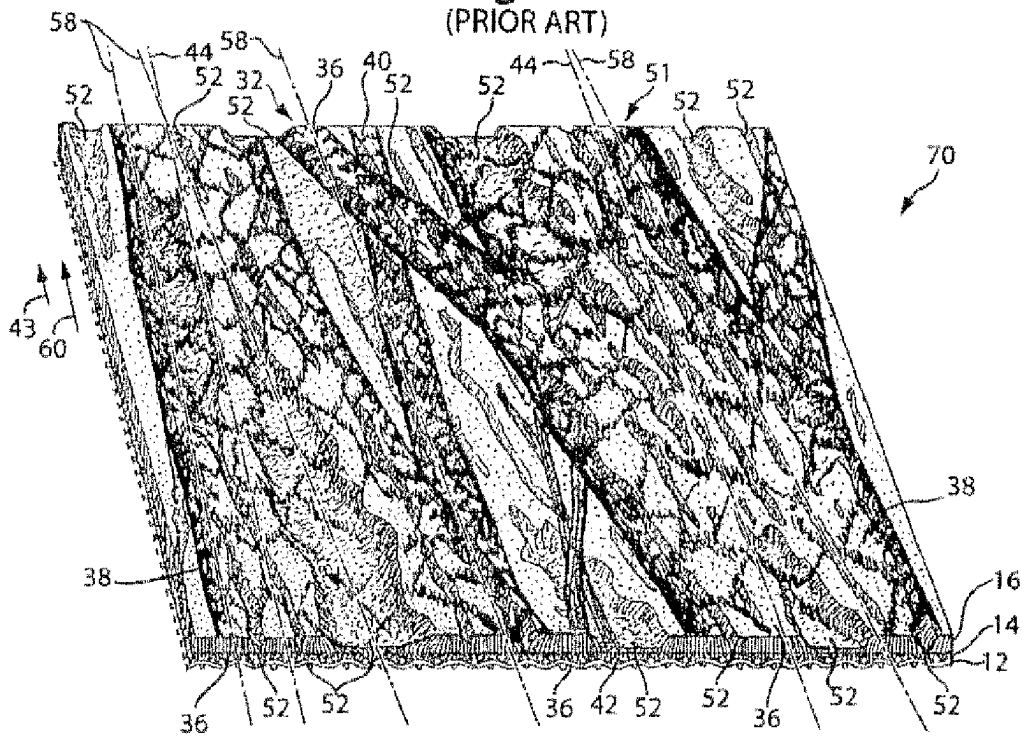


Fig. 2D

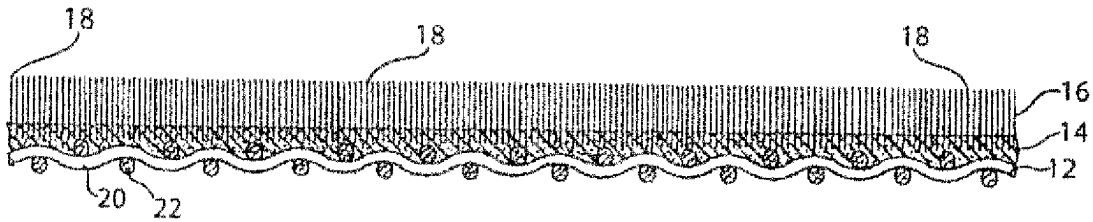


Fig. 1C
(PRIOR ART)

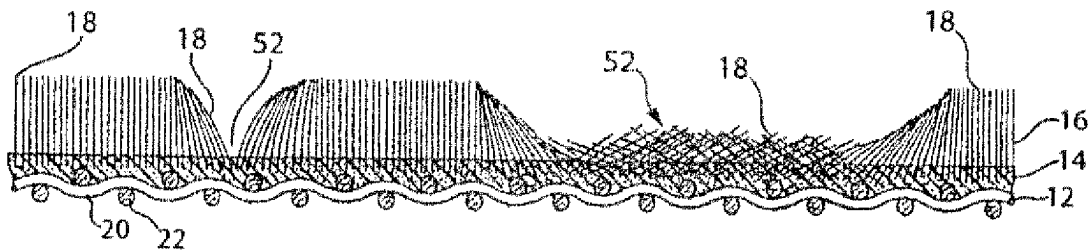


Fig. 2C

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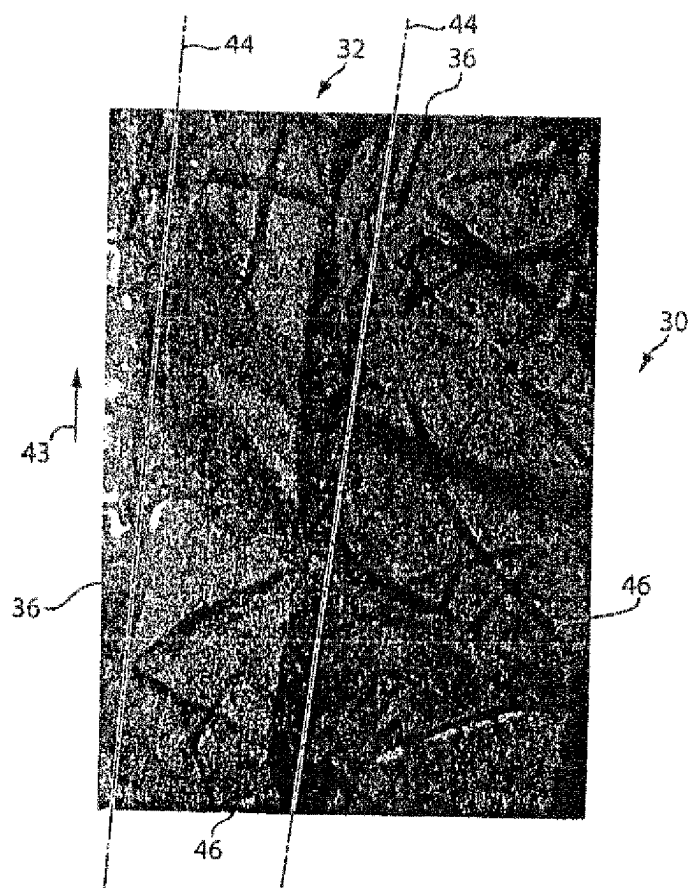


Fig. 1D

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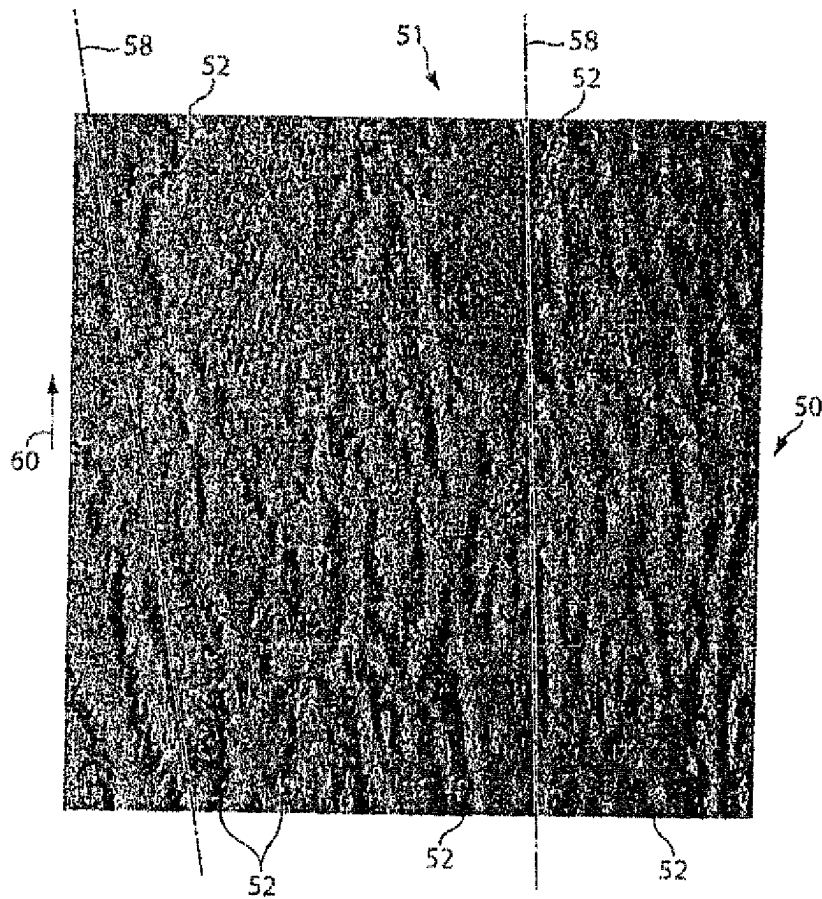


Fig. 2B

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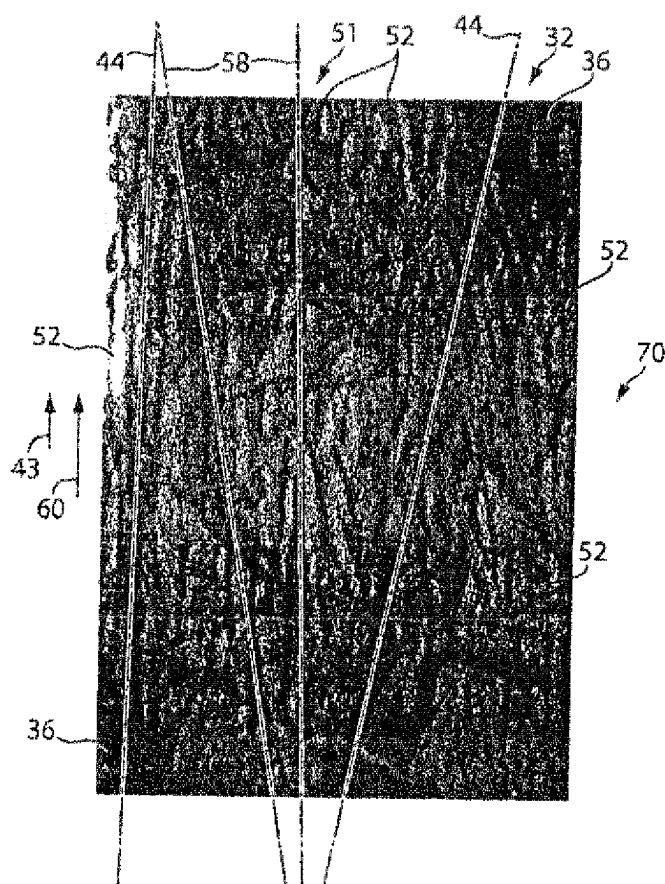


Fig. 2E

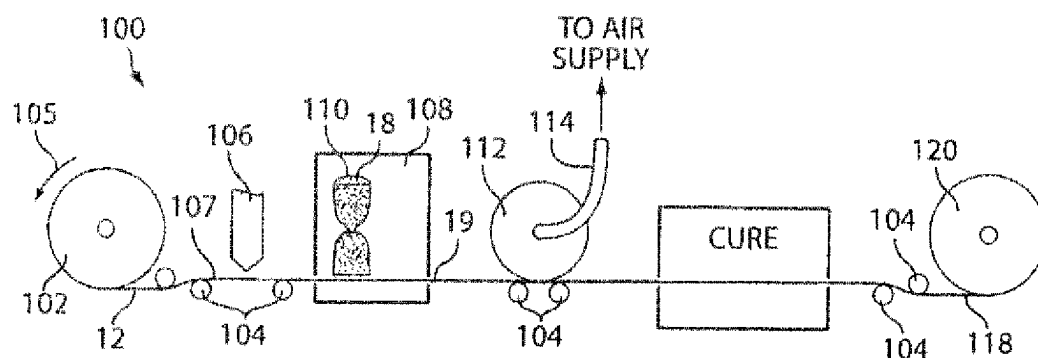


Fig. 3A

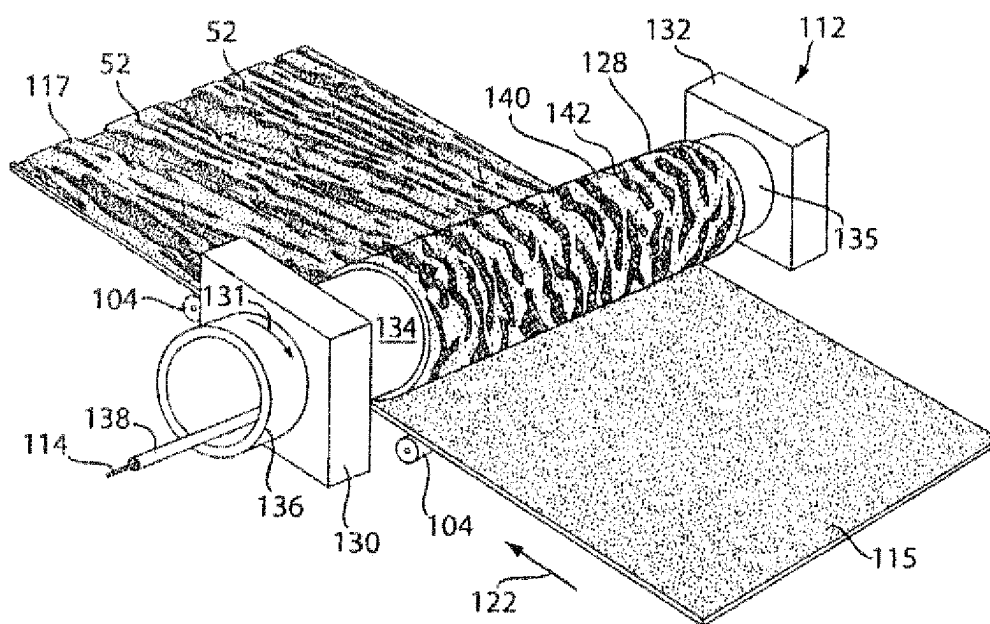


Fig. 3B

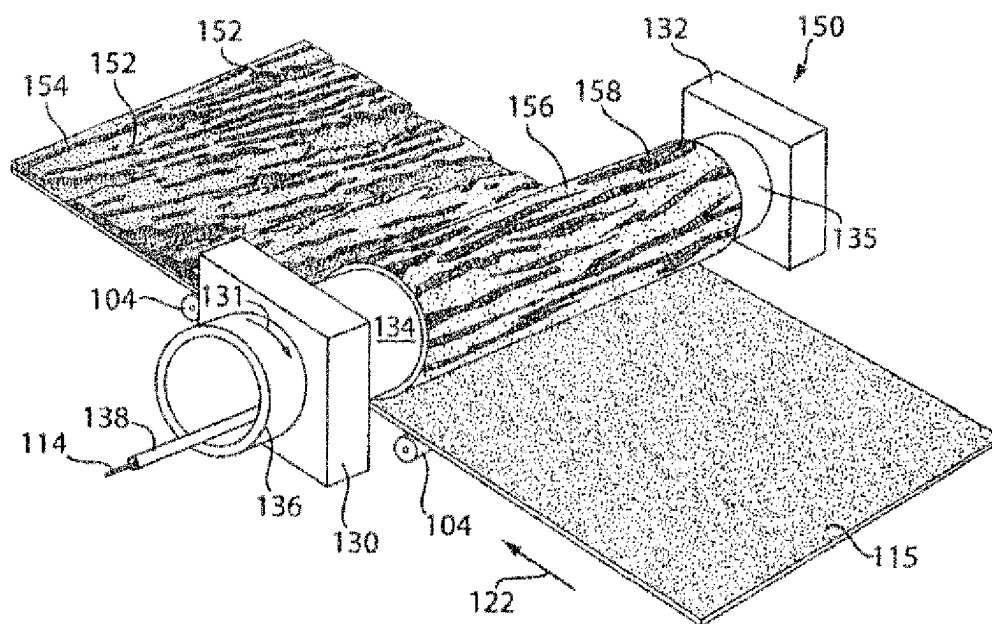


Fig. 3C

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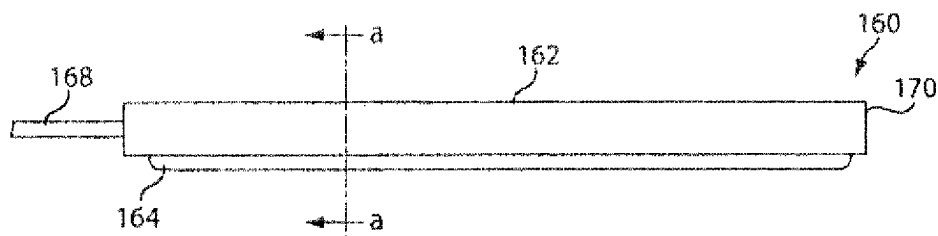


Fig. 3D

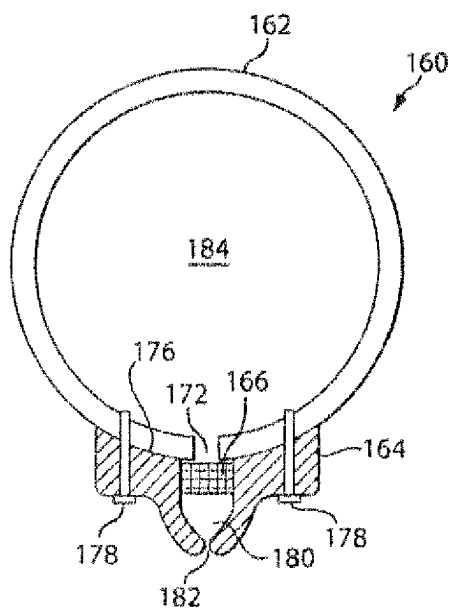


Fig. 3E

